

FIG.1

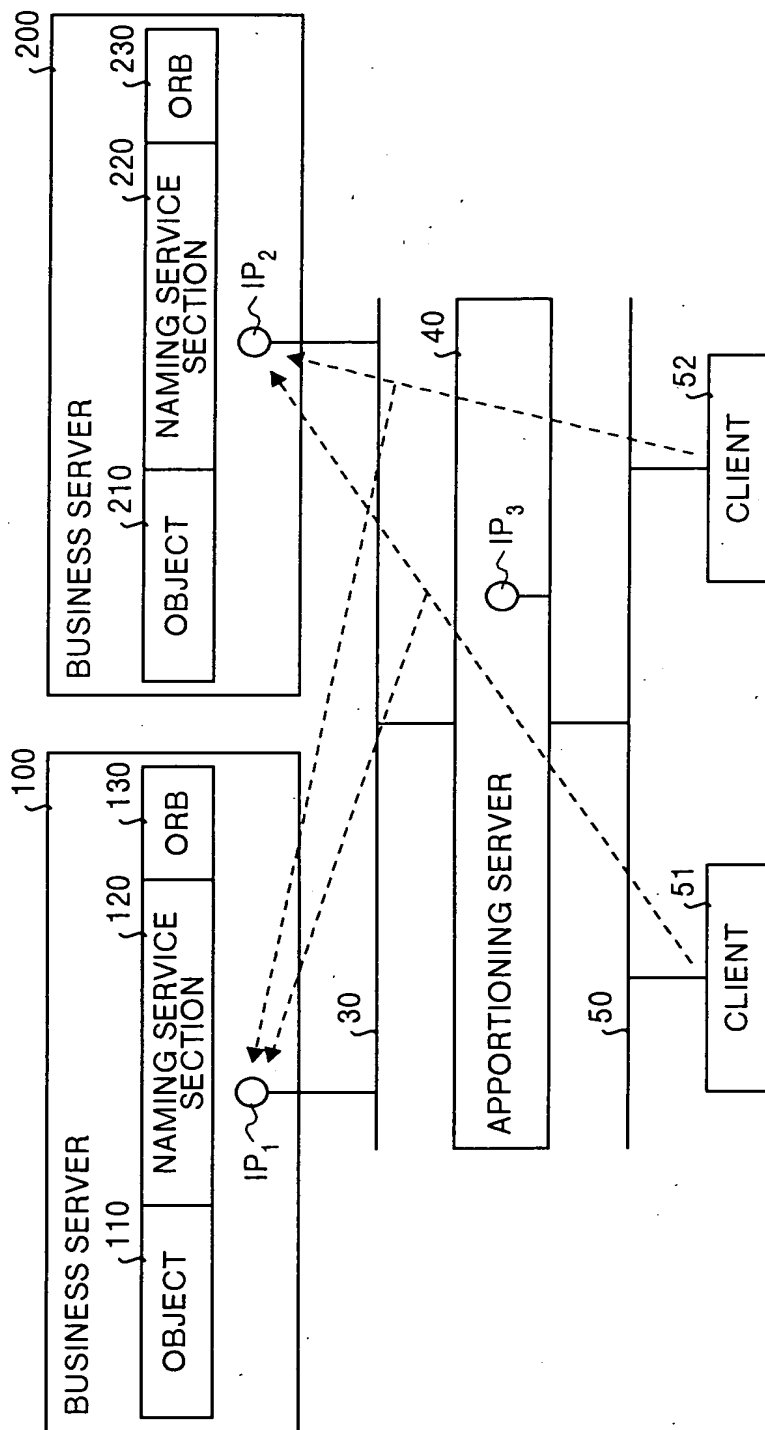


FIG. 2

The diagram illustrates the internal architecture of the **BUSINESS SERVER 100** and its communication with a **CLIENT 51, 52**.

Business Server 100 Components:

- OBJECT 110**: A box representing the object being managed.
- SYSTEM CONTROLLER 130**: The central control unit, containing:
 - STRUCTURE INFORMATION REGISTRATION TOOL T**: A tool for managing system structure information.
 - SYSTEM STRUCTURE INFORMATION 134**: A dashed box representing the current system structure.
 - SYSTEM STRUCTURE INFORMATION CONTROL SECTION**: A section for controlling the system structure information.
- ORB (Object Request Broker) 133**: A component for managing object references, containing:
 - ORB INTERFACE PROCESSING SECTION**: The entry point for ORB requests.
 - INTERFACE APPORTIONING SECTION 132**: A section for distributing requests to the appropriate service.
 - CONNECTION CONTROL SECTION 131**: A section for managing connection information.
- NAMING SERVICE SECTION 120**: A service for generating or fetching object references.
- OBJECT REFERENCE**: A box representing the reference to the object.

Communication Flow:

- Client 51, 52** sends a **SYN (ARRIVAL/ DEPARTURE IP DEPARTURE PORT)** to the **CONNECTION CONTROL SECTION 131**.
- The **CONNECTION CONTROL SECTION 131** sends **SYN+ACK** back to the **Client**.
- The **Client** sends a **DATA (NS OR ACQUISITION REQUEST)** to the **CONNECTION CONTROL SECTION 131**.
- The **CONNECTION CONTROL SECTION 131** sends **SYN+ACK** back to the **Client**.
- The **CONNECTION CONTROL SECTION 131** sends a **REQUEST (NS OR ACQUISITION REQUEST) AND CONNECTION INFORMATION** to the **INTERFACE APPORTIONING SECTION 132**.
- The **INTERFACE APPORTIONING SECTION 132** sends a **REQUEST (NS OR ACQUISITION REQUEST) AND CONNECTION INFORMATION** to the **ORB INTERFACE PROCESSING SECTION**.
- The **ORB INTERFACE PROCESSING SECTION** sends a **REQUEST (NS OR ACQUISITION REQUEST) AND CONNECTION INFORMATION** to the **NAMING SERVICE SECTION 120**.
- The **NAMING SERVICE SECTION 120** sends a **REPLY (NS OR)** back to the **ORB INTERFACE PROCESSING SECTION**.
- The **ORB INTERFACE PROCESSING SECTION** sends a **REPLY (NS OR)** back to the **INTERFACE APPORTIONING SECTION 132**.
- The **INTERFACE APPORTIONING SECTION 132** sends a **REPLY (NS OR)** back to the **CONNECTION CONTROL SECTION 131**.
- The **CONNECTION CONTROL SECTION 131** sends **DATA (NS OR)** back to the **Client**.

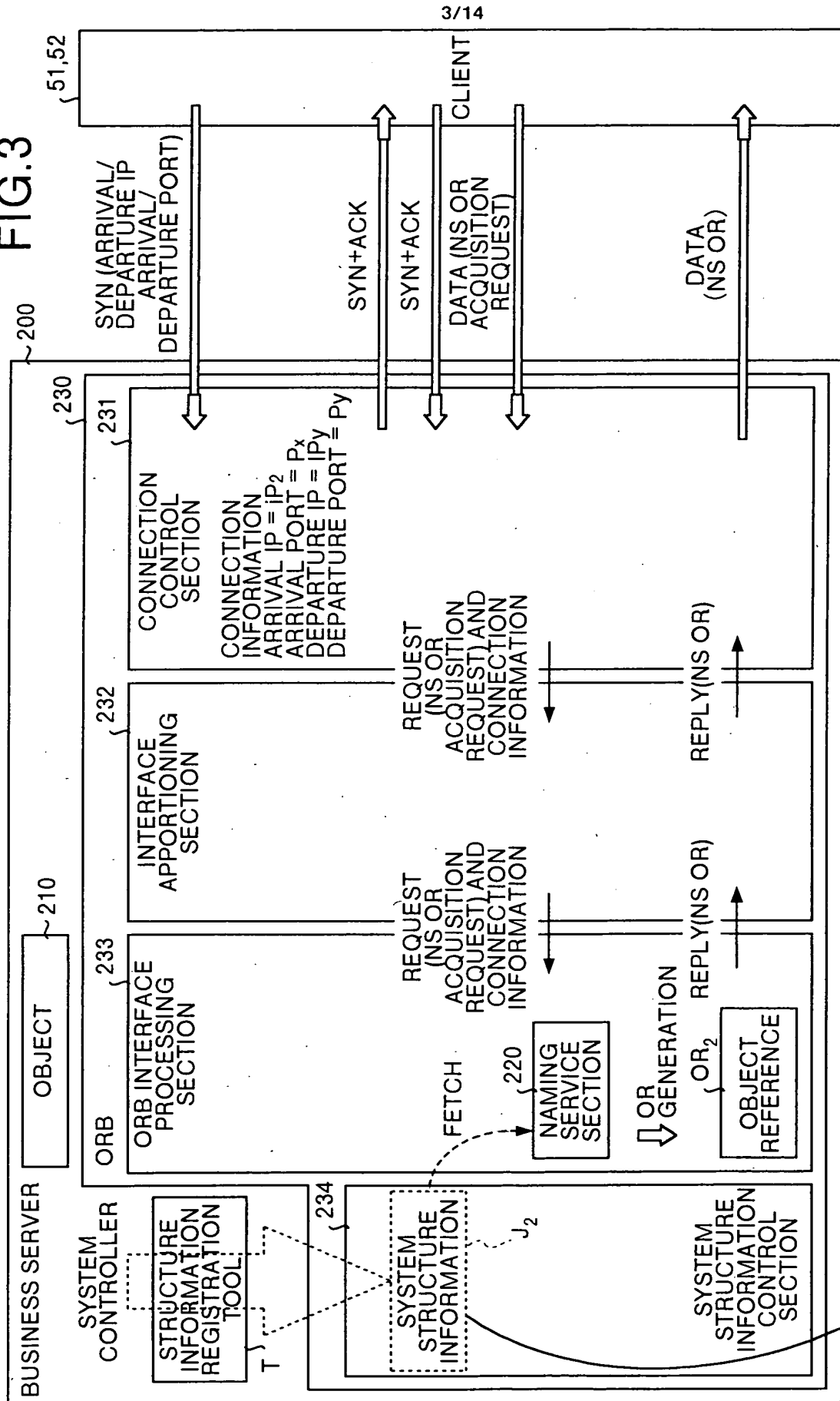
Labels and References:

- 51, 52**: Client identifier.
- 100**: Business Server identifier.
- 110**: Object identifier.
- 120**: Naming Service Section identifier.
- 130**: System Controller identifier.
- 131**: Connection Control Section identifier.
- 132**: Interface Apportioning Section identifier.
- 133**: ORB identifier.
- 134**: System Structure Information identifier.
- J₁**: A dashed line indicating a connection or relationship between the **SYSTEM STRUCTURE INFORMATION 134** and the **STRUCTURE INFORMATION REGISTRATION TOOL T**.

NS: NAMING SERVICE
OR: OBJECT REFERENCE

	IP ADDRESS SUBJECT TO LOAD DISTRIBUTION	IP ADDRESS FOR LOAD DISTRIBUTION
BUSINESS SERVER 100	IP ₁	IP ₃

FIG.3



BUSINESS SERVER 200		J ₂	
IP ADDRESS SUBJECT TO LOAD DISTRIBUTION		IP ADDRESS FOR LOAD DISTRIBUTION	
IP ₂		IP ₃	

NS : NAMING SERVICE
OR : OBJECT REFERENCE

FIG.4A

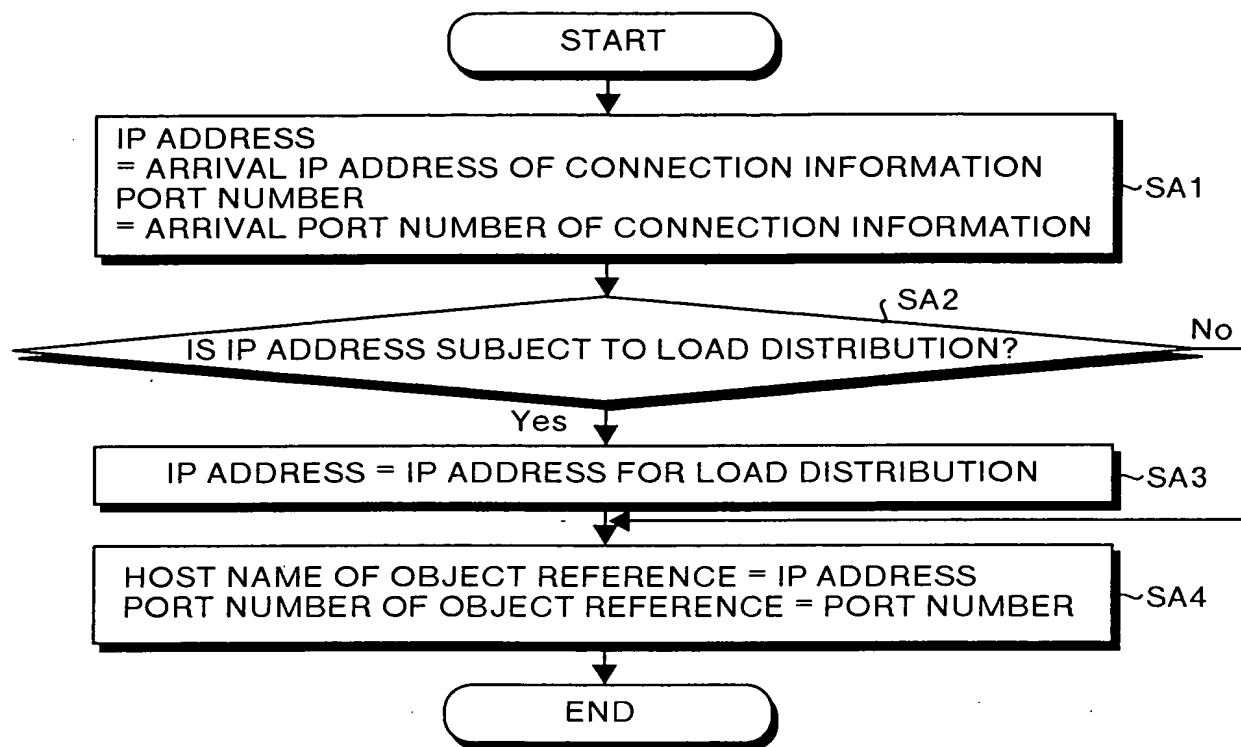
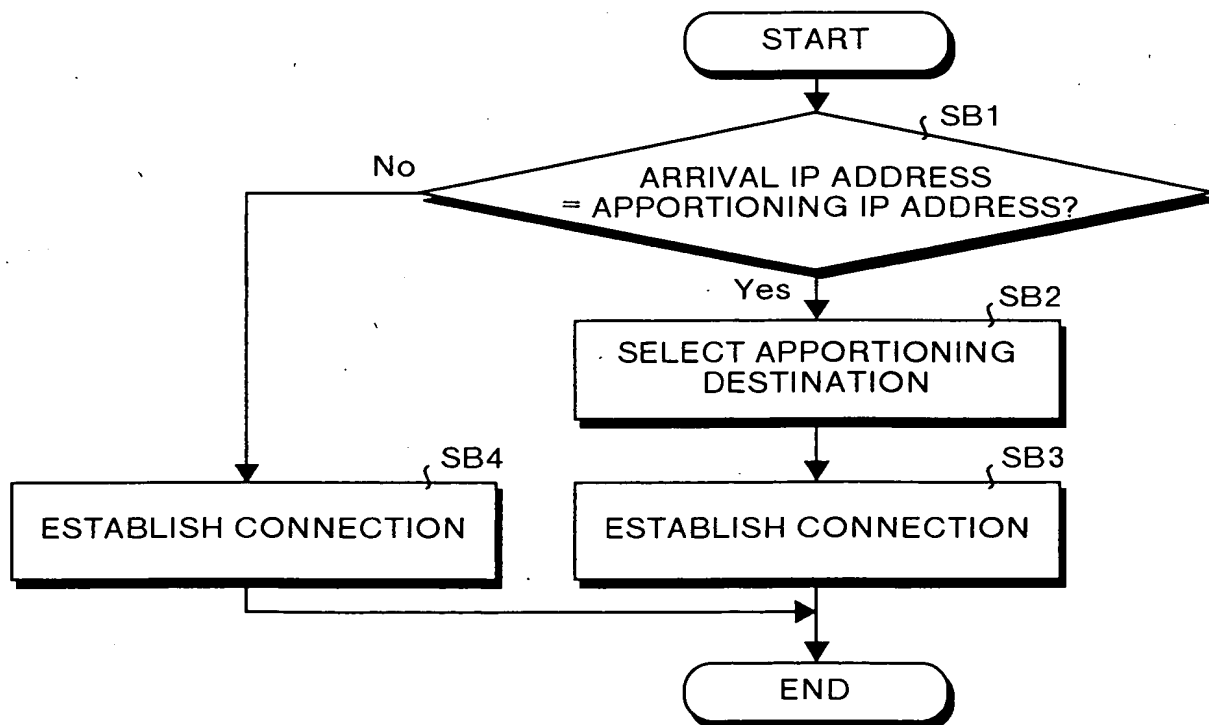


FIG.4B



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FIG.5

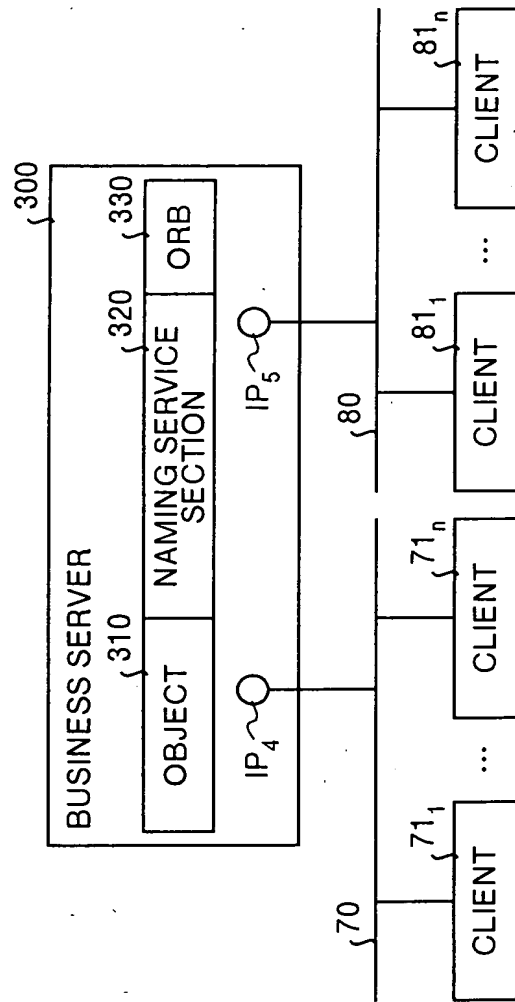


FIG.6

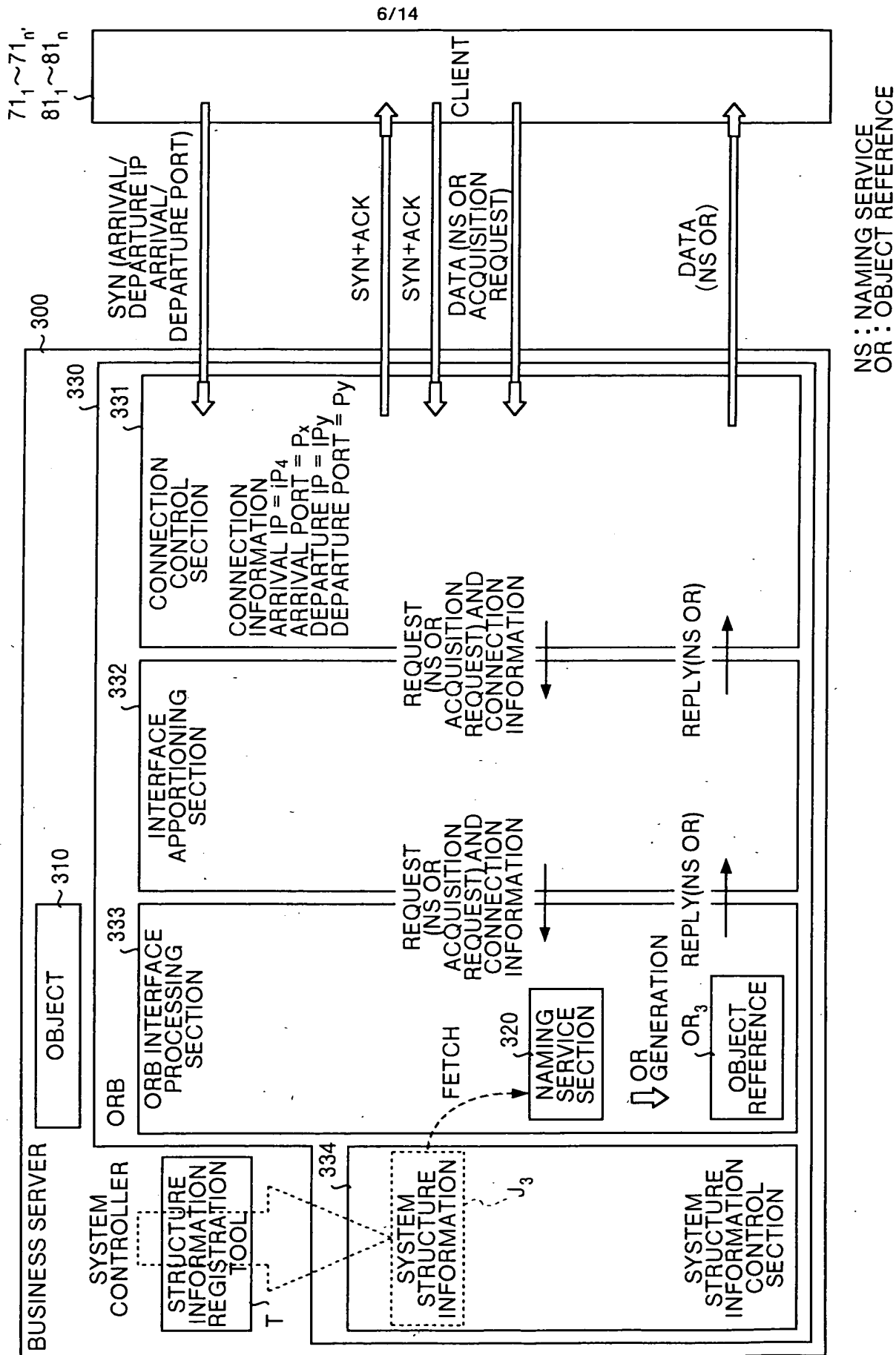


FIG.7

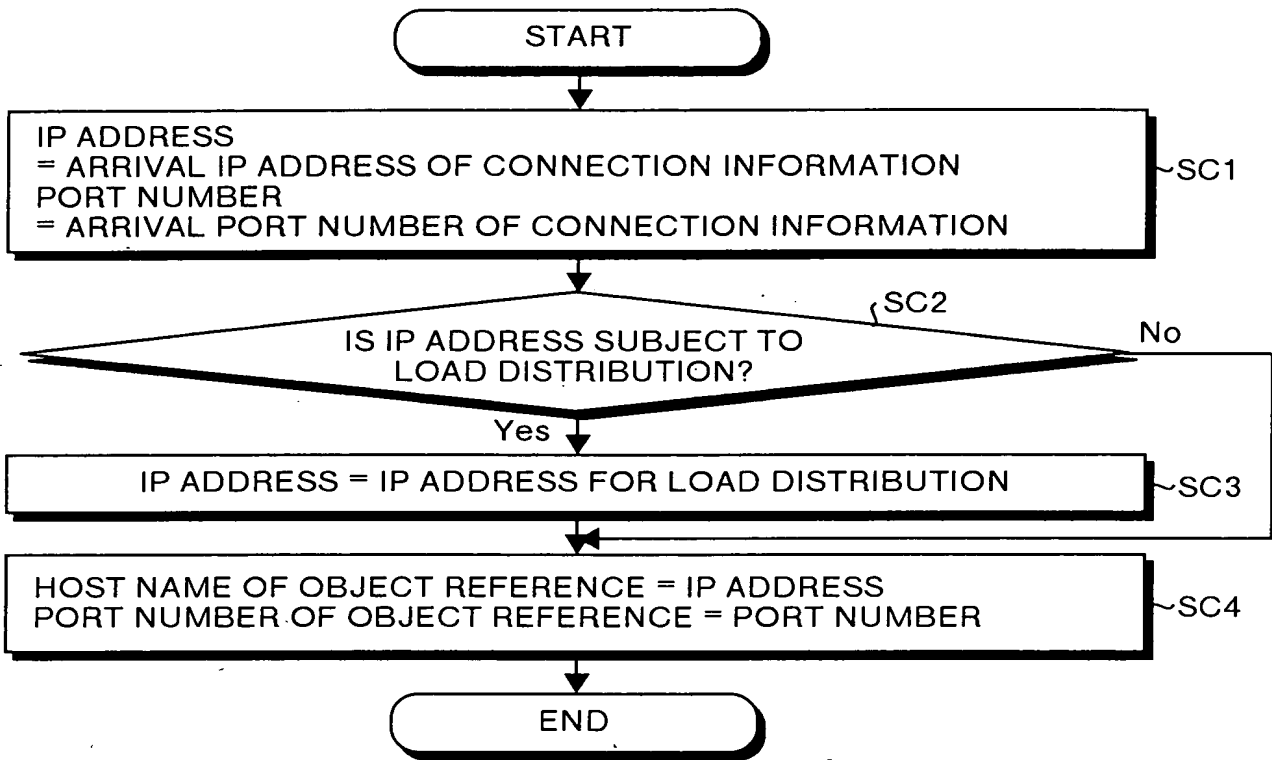


FIG.8

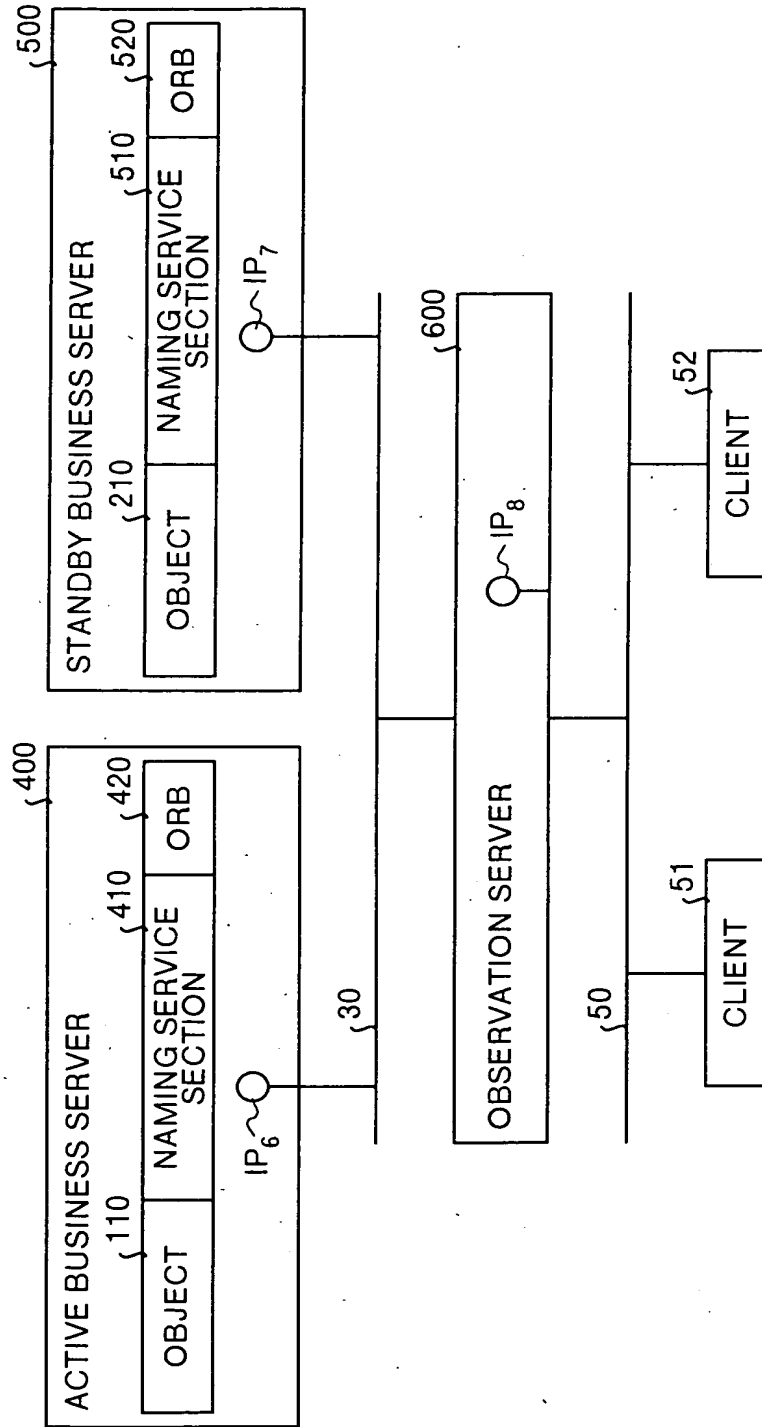
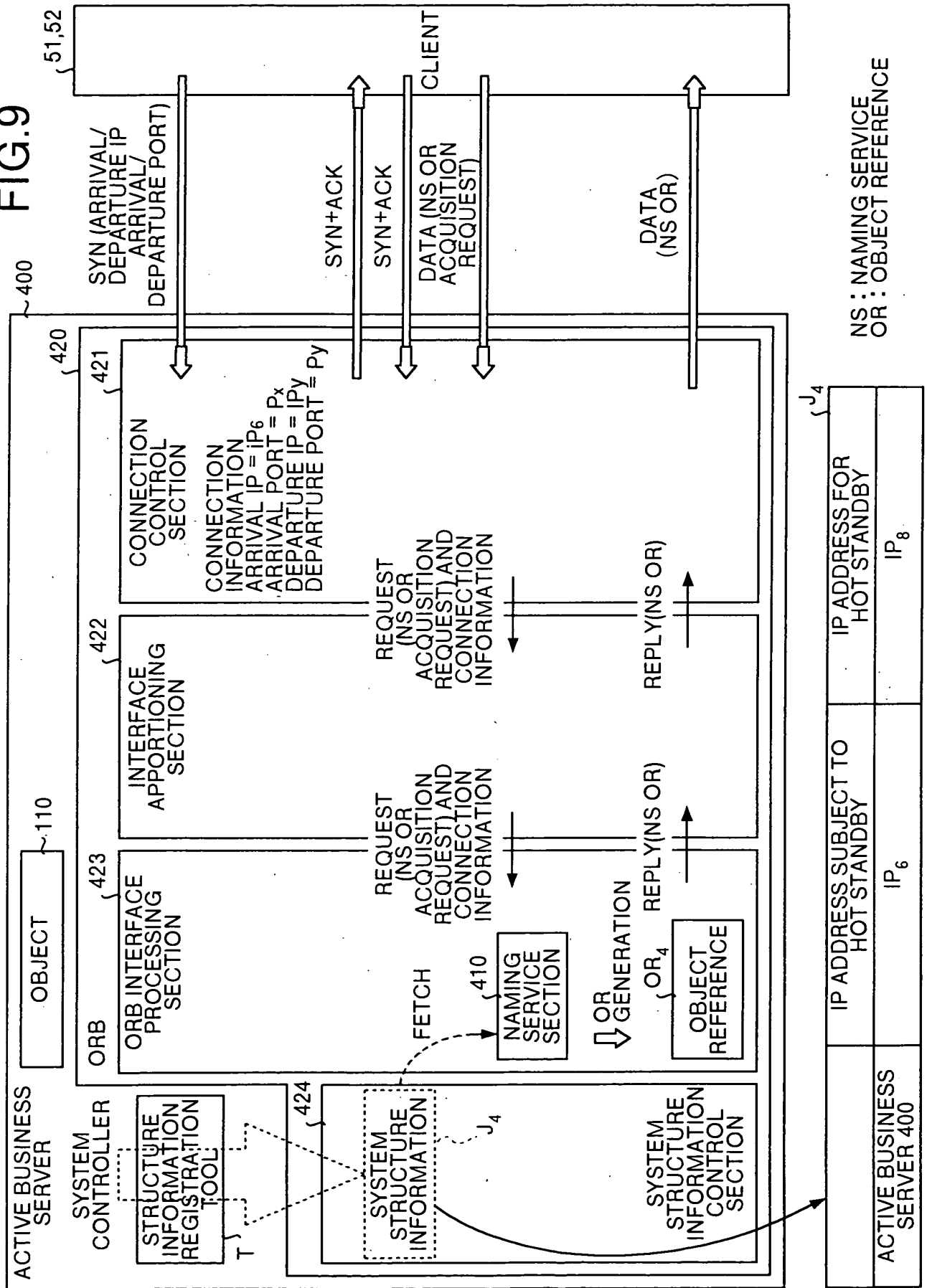


FIG.9



NS : NAMING SERVICE
OR : OBJECT REFERENCE

FIG.10

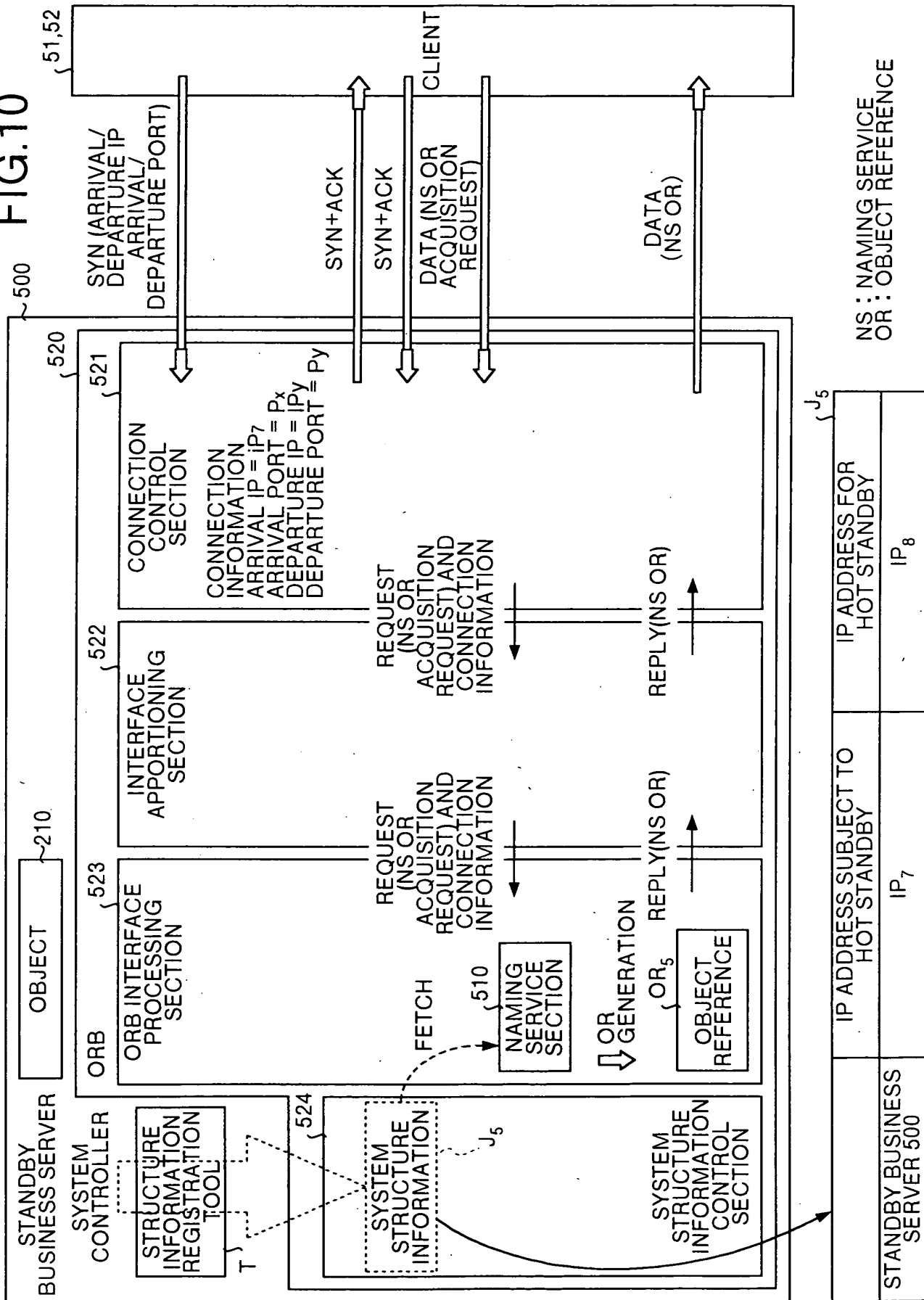


FIG.11A

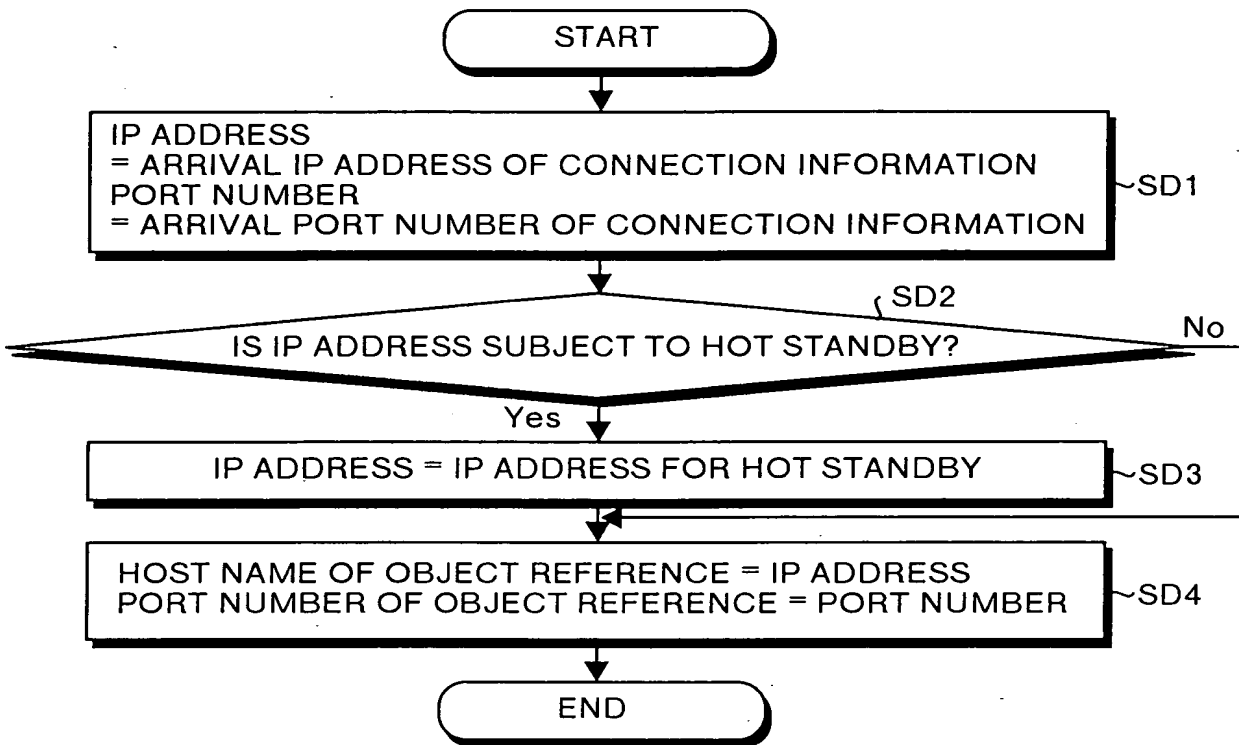


FIG.11B

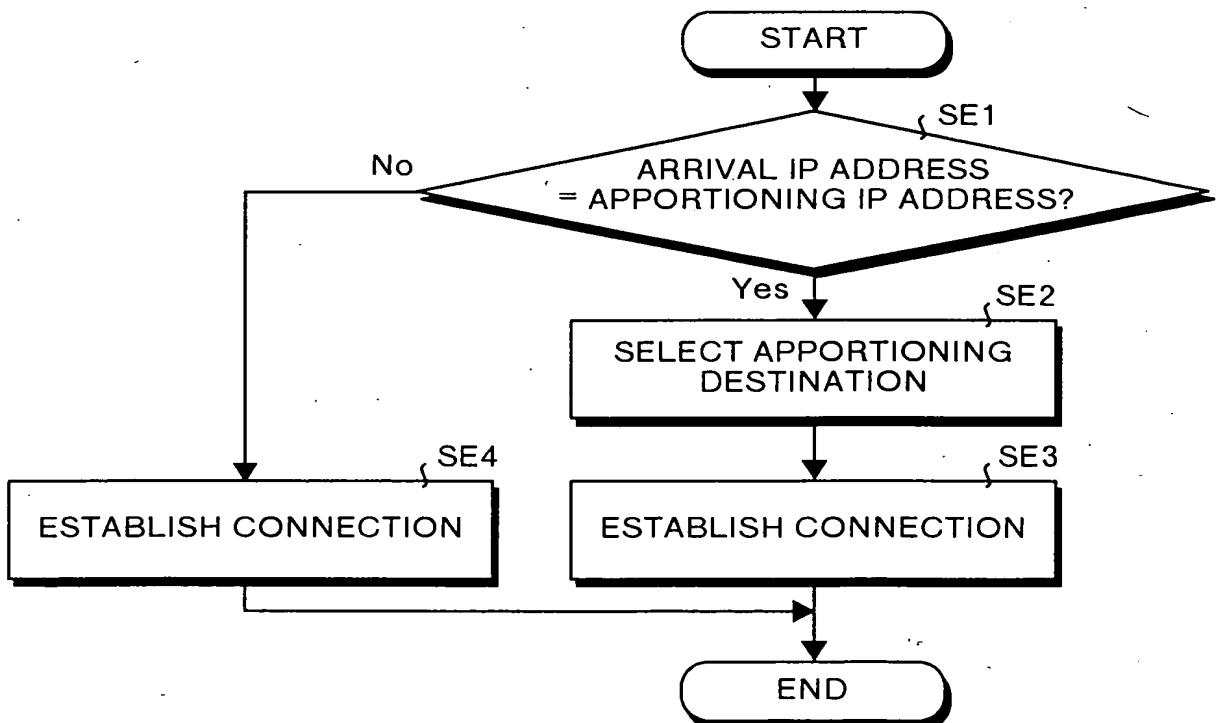


FIG.12

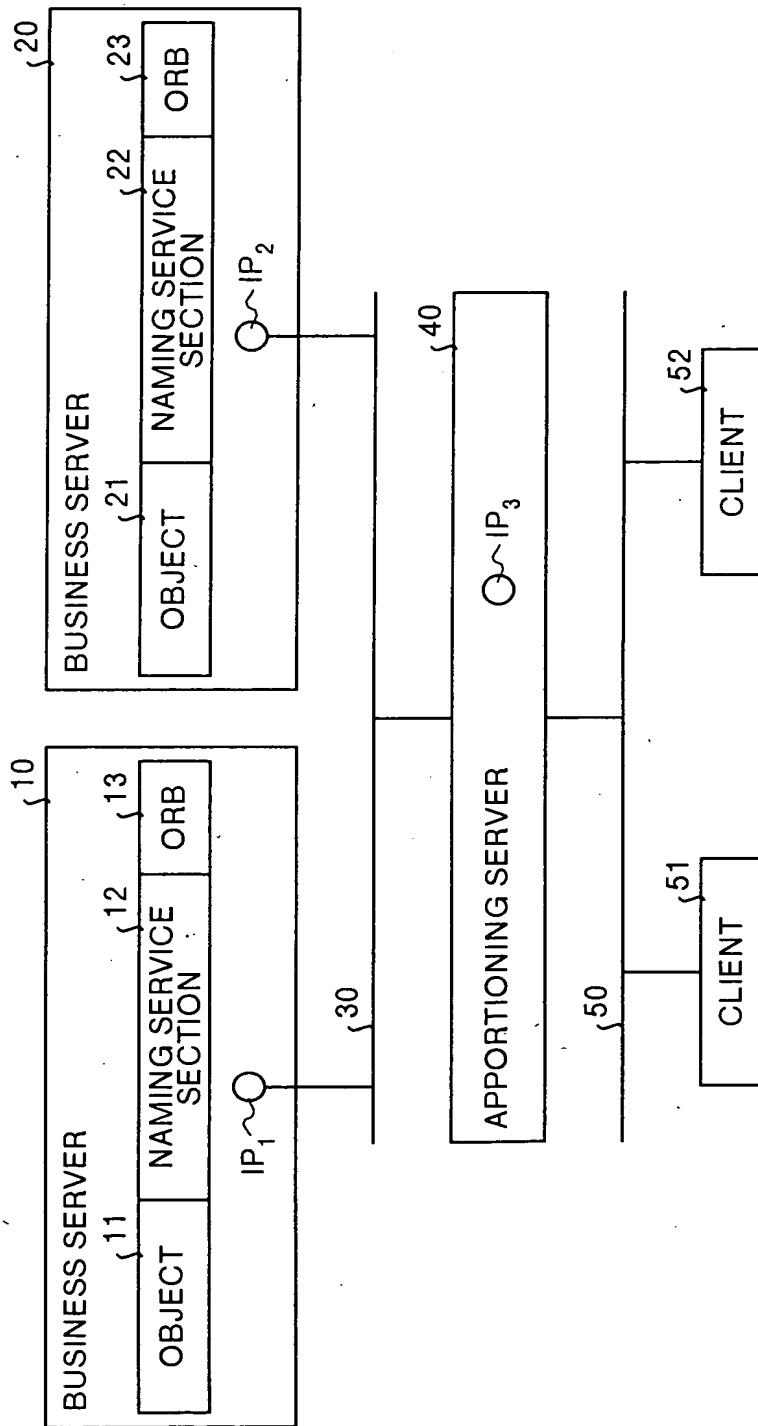


FIG.13

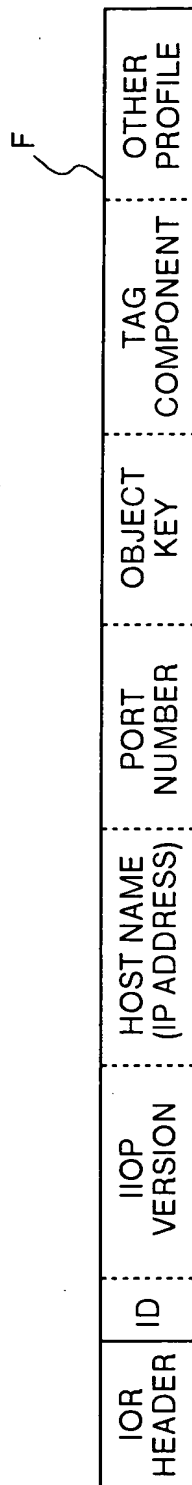


FIG.14

